

## EAST Search History

| Ref # | Hits    | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|---------|---|--|------------------|---------|------------------|
| L1    | 1343    | 345/82  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/05/16 17:20 |
| L2    | 1       | (oled and pixel and voltage and current and environmental and (age aging) and lifetime and optimiz\$3).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/05/16 17:21 |
| S1    | 2       | ("20050030267").PN.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/05/16 17:16 |
| S2    | 10      | (("20030048243") or ("5594463") or ("6310589") or ("6486607") or ("5796376")).PN.                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/12/07 09:02 |
| S3    | 4797    | (345/76,82,101,204,214).CCLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/10/28 11:59 |
| S4    | 913     | (345/1.1,1.3,4).CCLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/10/28 11:59 |
| S5    | 33      | S3 AND S4   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/10/28 12:05 |
| S6    | 4182112 | temperature   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/10/28 12:05 |
| S7    | 7       | S3 AND S4 AND S6  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/10/28 12:47 |
| S8    | 778374  | oled OR o-led OR el   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2005/10/28 12:48 |

## EAST Search History

|     |         |  |   |    |    |                  |
|-----|---------|--|---|----|----|------------------|
| S9  | 1978098 | display  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 12:48 |
| S10 | 1978098 | display  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 12:48 |
| S11 | 1361614 | oled OR o-led led OR el  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 12:54 |
| S12 | 25714   | (detect\$3 OR sens\$3 OR measur\$3 OR calculat\$3 OR estimat\$3) NEAR5 (temp OR temperature) NEAR5 (oled OR o-led OR led OR el OR ambient OR pixel)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 13:19 |
| S13 | 71997   | (chang\$3 OR adjust\$3 OR alter\$3 OR modify\$3) WITH (((on OR active OR activat\$3) NEAR5 (current NEAR2 (source OR driv\$3)) NEAR5 (time OR duration OR period)) OR ((supply\$3 OR driv\$3) NEAR5 (voltage OR potential))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 14:26 |
| S14 | 1251    | (((detect\$3 OR sens\$3 OR measur\$3 OR calculat\$3 OR estimat\$3) NEAR5 (voltage OR potential)) WITH (current NEAR2 (source OR driv\$3))) SAME ((threshold OR operat\$3) NEAR2 (potential OR voltage))                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 13:19 |
| S15 | 538083  | chang\$3 NEAR5 (time OR duration OR period)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 14:30 |
| S16 | 1       | S10 AND S11 AND S12 AND S13 AND S14 AND S15  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 13:14 |
| S17 | 1       | S10 AND S11 AND S12 AND S13 AND S14  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 13:17 |
| S18 | 1       | S10 AND S12 AND S13 AND S14  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/10/28 13:17 |

## EAST Search History

|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S19 | 341    | S10 AND S12 AND S13   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 13:17 |
| S20 | 131    | S10 AND S11 AND S12 AND S13   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 13:18 |
| S21 | 913    | (345/1.1,1.3,4).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/28 13:18 |
| S22 | 0      | S21 AND S20   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 13:18 |
| S23 | 64291  | (detect\$3 OR sens\$3 OR measur\$3 OR calculat\$3 OR estimat\$3<br>OR determin\$3) WITH ((threshold OR operat\$3) NEAR2<br>(potential OR voltage))                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 14:24 |
| S24 | 28418  | (determin\$3 OR detect\$3 OR sens\$3 OR measur\$3 OR<br>calculat\$3 OR estimat\$3) NEAR5 (temp OR temperature)<br>NEAR5 (oled OR o-led OR led OR el OR ambient OR pixel)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 14:28 |
| S25 | 24     | S10 AND S11 AND S24 AND S23 AND S13   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 14:21 |
| S26 | 69953  | ("345").CLAS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/10/28 14:21 |
| S27 | 294354 | (detect\$3 OR sens\$3 OR measur\$3 OR calculat\$3 OR estimat\$3<br>OR determin\$3) WITH (threshold OR (operat\$3 NEAR2<br>(potential OR voltage)))                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 14:25 |
| S28 | 114016 | (chang\$3 OR adjust\$3 OR alter\$3 OR modify\$3 OR updat\$3)<br>WITH ((current NEAR5 (time OR duration OR period)) OR<br>((supply\$3 OR driv\$3) NEAR5 (voltage OR potential))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/10/28 14:28 |

## EAST Search History

|     |       |   |  |    |    |                  |
|-----|-------|---|--|----|----|------------------|
| S29 | 77651 | (determin\$3 OR detect\$3 OR sens\$3 OR measur\$3 OR calculat\$3 OR estimat\$3) WITH (temp OR temperature) WITH (oled OR o-led OR led OR el OR ambient OR pixel OR environment\$3 OR surrounding) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 14:29 |
| S30 | 37490 | ((determin\$3 OR detect\$3 OR sens\$3 OR measur\$3 OR calculat\$3 OR estimat\$3) NEAR5 (voltage OR potential)) WITH (current NEAR5 (switch\$3 OR source OR driv\$3))                              | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 14:32 |
| S31 | 17    | S26 AND S10 AND S11 AND S29 AND S27 AND S28   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 15:01 |
| S32 | 70    | Takao NEAR Miyazawa   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 15:02 |
| S33 | 11    | (Takao NEAR Miyazawa) AND temperature   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 15:02 |
| S34 | 0     | (Takao NEAR Miyazawa) AND display AND temperature   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 15:02 |
| S35 | 1     | (Takao NEAR Miyazawa) AND temperature   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 15:03 |
| S36 | 25    | "0163587"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/10/28 15:03 |
| S37 | 70    | takao NEAR miyazawa   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/06 14:26 |
| S38 | 1     | (takao NEAR miyazawa) AND precharg\$3   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/06 14:28 |

## EAST Search History

|     |      |  |  |    |     |                  |
|-----|------|--|--|----|-----|------------------|
| S39 | 0    | (takao NEAR miyazawa) AND pre-charge\$3  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:28 |
| S40 | 1    | (takao NEAR miyazawa) AND precharge\$3   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:28 |
| S41 | 296  | temperature SAME ((on-time NEAR3 current) OR voltage) SAME temperature SAME ((threshold OR (normal NEAR2 operat\$3)) NEAR2 voltage) SAME (voltage NEAR3 (current NEAR2 (source OR driv\$3)))                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:35 |
| S42 | 4918 | (345/76,82,101,204,214).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/06 14:32 |
| S43 | 937  | (345/1.1,1.3,4).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/06 14:32 |
| S44 | 1    | (S42 OR S43) AND oled AND S41  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:35 |
| S45 | 5228 | temperature AND ((on-time NEAR3 current) OR voltage) AND ((threshold OR (normal NEAR2 operat\$3)) NEAR2 voltage) AND (voltage NEAR3 (current NEAR2 (source OR driv\$3)))   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:47 |
| S46 | 79   | (S42 OR S43) AND (led OR o-led OR oled) AND S45  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:48 |
| S47 | 416  | temperature AND ((on-time NEAR3 current) OR ((pixel OR oled OR led OR o-led) NEAR4 voltage)) AND ((threshold OR (normal NEAR2 operat\$3)) NEAR2 voltage) AND (voltage NEAR3 (current NEAR2 (source OR driv\$3))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:50 |
| S48 | 70   | (S42 OR S43) AND (led OR o-led OR oled) AND S47  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:50 |

## EAST Search History

|     |         |  |  |    |     |                  |
|-----|---------|--|--|----|-----|------------------|
| S49 | 44      | temperature AND ((on-time NEAR3 current) OR ((pixel OR oled OR led OR o-led) NEAR4 voltage)) AND ((threshold OR (normal NEAR2 operat\$3)) NEAR2 voltage NEAR2 (pixel OR led OR oled OR o-led)) AND (voltage NEAR3 (current NEAR2 (source OR driv\$3))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:50 |
| S50 | 19      | (S42 OR S43) AND (led OR o-led OR oled) AND S49  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/06 14:51 |
| S51 | 6899    | (345/204,214,55,76,77,82,83,101,1.1,1.3,4).CCLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 16:25 |
| S52 | 4208100 | temperature  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 09:32 |
| S53 | 9031    | ((voltage OR potential) WITH (current NEAR2 (source OR supply\$3 OR driv\$3))) SAME (time WITH (threshold OR normal OR operat\$3 OR operational) WITH (voltage OR potential))  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 09:21 |
| S54 | 794444  | (time WITH (current NEAR2 (source OR supply\$3 OR driv\$3))) OR ((driv\$3 OR supply\$3) WITH (voltage OR potential))   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 09:23 |
| S55 | 53      | S51 AND (led OR oled OR o-led OR el) AND S52 AND S53 AND S54   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 09:33 |
| S56 | 664240  | (detect\$3 OR measur\$3 OR sens\$3) WITH temperature   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 12:33 |
| S57 | 4       | S51 AND (led OR oled OR o-led OR el) AND S56 AND S53 AND S54   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 09:34 |
| S58 | 2       | ("20030071804").PN.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 10:36 |

## EAST Search History

|     |       |   |  |    |    |                  |
|-----|-------|---|--|----|----|------------------|
| S59 | 1114  | (detect\$3 OR measur\$3 OR sens\$3) WITH temperature WITH pixel   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 12:33 |
| S60 | 2     | 2002-278514   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 12:43 |
| S61 | 1     | (NUMAO NEAR KOJI) AND (measuring OR measure\$4) AND organic AND estimat\$3  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 12:44 |
| S62 | 1204  | (measur\$3 OR detect\$3 OR calculat\$3 OR determin\$3) NEARS ((voltage OR potential) NEAR2 (drop OR across)) NEAR5 (current NEAR2 (source OR driv\$3 OR supply\$3))   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 13:52 |
| S63 | 12    | S51 AND S62   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 13:45 |
| S64 | 13    | ((measur\$3 OR detect\$3 OR calculat\$3 OR determin\$3) NEARS ((voltage OR potential) NEAR2 (drop OR across)) NEAR5 (current NEAR2 (source OR driv\$3 OR supply\$3))) WITH ((voltage OR potential) NEAR2 (threhsold OR normal OR operating OR operational)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 14:31 |
| S65 | 2     | "20020167474"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 14:31 |
| S66 | 12    | "6376994"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 14:56 |
| S67 | 73100 | (charg\$3 OR precharg\$3 OR pre-charge\$3) WITH (determin\$3 OR measur\$3 OR calculat\$3 OR detect\$3) WITH (voltage OR potential)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 15:18 |
| S68 | 195   | S51 AND S67   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 15:18 |

## EAST Search History

|     |      |   |  |    |     |                  |
|-----|------|---|--|----|-----|------------------|
| S69 | 126  | S51 AND (oled OR led OR el) AND S67   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 15:21 |
| S70 | 73   | S51 AND (oled OR led) AND S67   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 16:20 |
| S71 | 46   | ((module OR display) NEAR3 (tiling OR tile OR tiled)) AND (temperature NEAR2 differen\$3) AND (cool\$3)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/08 09:25 |
| S72 | 1    | S51 AND S71   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/07 16:25 |
| S73 | 1    | "5993027".PN.   | USPAT; USOCR                                       | OR | ON  | 2005/12/08 09:22 |
| S74 | 1    | "5903328".PN.   | USPAT; USOCR                                       | OR | ON  | 2005/12/08 09:22 |
| S75 | 1    | "5661531".PN.   | USPAT; USOCR                                       | OR | ON  | 2005/12/08 09:23 |
| S76 | 937  | (345/1.1,1.3,4).CCLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/08 09:26 |
| S77 | 21   | S76 AND (temperature SAME cool\$3)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/08 09:29 |
| S78 | 180  | display AND ((display OR module) NEAR3 (tile\$2 OR tiling)) AND (temperature WITH (difference OR aberration OR alteration OR asymmetry OR chang\$3 OR contrast OR deviation OR differentiation OR discrepancy OR disparity OR inequality OR irregularity OR nonconformity OR variance OR variation OR variety)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/08 14:51 |
| S79 | 6909 | (345/204,214,55,76,77,82,83,101,1.1,1.3,4).CCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/08 09:50 |
| S80 | 17   | S79 AND S78   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/12/08 10:04 |

## EAST Search History

|     |      |  |  |    |    |                  |
|-----|------|--|--|----|----|------------------|
| S81 | 96   | S78 AND (cool\$3 OR (heat NEAR2 sink\$3))  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:04 |
| S82 | 22   | S78 AND (cool\$3 OR (heat NEAR2 sink\$3)) AND (led OR oled OR o-led OR el)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:05 |
| S83 | 2003 | (age\$2 OR aging) WITH ((intensity OR brightness OR luminance) OR contrast) WITH (predetermined OR predefined OR limit OR threshold OR maximum OR minimum)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:17 |
| S84 | 90   | (age\$2 OR aging) WITH (intensity OR brightness OR luminance) WITH contrast WITH (predetermined OR predefined OR limit OR threshold OR maximum OR minimum)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:15 |
| S85 | 2    | S79 AND S84  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:16 |
| S86 | 13   | S79 AND S83  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:16 |
| S87 | 64   | ((prevent\$3 OR reduc\$3 OR avoid\$3 OR delay\$3 OR suppress\$3) NEAR2 (age\$2 OR aging)) WITH ((intensity OR brightness OR luminance) OR contrast) WITH (predetermined OR predefined OR limit OR threshold OR maximum OR minimum) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:20 |
| S88 | 5    | display AND (led OR oled OR o-led OR el) AND S87   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:20 |
| S89 | 1619 | ((prevent\$3 OR reduc\$3 OR avoid\$3 OR delay\$3 OR suppress\$3) NEAR2 (age\$2 OR aging)) WITH ((intensity OR brightness OR luminance) OR contrast)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 13:49 |
| S90 | 65   | display AND (led OR oled OR o-led OR el) AND S89   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 10:20 |

## EAST Search History

|      |     |   |  |    |    |                  |
|------|-----|---|--|----|----|------------------|
| S91  | 862 | ((prevent\$3 OR reduc\$3 OR avoid\$3 OR delay\$3 OR suppress\$3) NEAR4 (age\$1 OR aging)) SAME ((intensity OR brightness OR luminance) OR contrast)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 13:51 |
| S92  | 200 | display AND S91   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 13:50 |
| S93  | 106 | ((prevent\$3 OR reduc\$3 OR avoid\$3 OR delay\$3 OR suppress\$3) NEAR4 (age\$1 OR aging)) SAME (((intensity OR brightness OR luminance) OR contrast) WITH (maximum OR minimum OR peak OR limit OR threshold OR max OR min OR predetermined OR predefined OR set))   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 14:00 |
| S94  | 27  | display AND S93   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 14:26 |
| S95  | 30  | ((prevent\$3 OR reduc\$3 OR avoid\$3 OR delay\$3 OR suppress\$3) NEAR4 (age\$1 OR aging)) SAME (contrast) WITH (maximum OR minimum OR peak OR limit OR threshold OR max OR min OR predetermined OR predefined OR set OR range)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 14:04 |
| S96  | 7   | display AND S95   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 14:01 |
| S97  | 400 | ((prevent\$3 OR reduc\$3 OR avoid\$3 OR delay\$3 OR suppress\$3) NEAR4 (age\$1 OR aging)) SAME (contrast)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 14:04 |
| S98  | 79  | display AND S97   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 14:04 |
| S99  | 239 | ((display OR module) WITH (tile OR tiled OR tiling)) AND (temperature WITH (cool\$3 OR (heat NEAR sink\$3) OR fan OR (temperature NEAR reduc\$5)))  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 15:02 |
| S100 | 952 | (adjacent OR different OR separate OR next) WITH (display OR module) WITH temperature WITH (difference OR aberration OR alteration OR asymmetry OR chang\$3 OR contrast OR deviation OR differentiation OR discrepancy OR disparity OR inequality OR irregularity OR nonconformity OR variance OR variation OR variety) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/08 14:55 |

## EAST Search History

|          |    |   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S10<br>1 | 1  | S76 AND S100  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/08 14:55 |
| S10<br>2 | 37 | S79 AND S100  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/08 14:55 |
| S10<br>3 | 6  | ((display OR module) WITH (tiling OR tile OR tiled)) AND ((adjacent OR different OR separate OR next) WITH (display OR module) WITH temperature WITH (difference OR aberration OR alteration OR asymmetry OR chang\$3 OR contrast OR deviation OR differentiation OR discrepancy OR disparity OR inequality OR irregularity OR nonconformity OR variance OR variation OR variety))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/08 15:20 |
| S10<br>4 | 1  | "4691267".PN.   | USPAT;<br>USOCR   | OR | ON  | 2005/12/08 15:01 |
| S10<br>5 | 2  | "20050116902"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/08 15:02 |
| S10<br>6 | 24 | ((display OR module) WITH (tiling OR tile OR tiled)) AND ((adjacent OR different OR separate OR next) SAME (display OR module) SAME temperature SAME (difference OR aberration OR alteration OR asymmetry OR chang\$3 OR contrast OR deviation OR differentiation OR discrepancy OR disparity OR inequality OR irregularity OR nonconformity OR variance OR variation OR variety) SAME (reduc\$3 OR eliminat\$3 OR prevent\$3 OR lower\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/12/08 15:32 |
| S10<br>7 | 20 | display.AB. AND (((pixel led oled el) WITH (calculat\$3 determin\$3 estimat\$3) WITH (life lifetime) WITH (brightness intensity luminance magnitude light)) SAME ((life lifetime) WITH (brightness intensity luminance magnitude light) WITH (optimiz\$3 optimization maximum maximiz\$3 efficien\$2)))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/12/19 09:48 |
| S10<br>8 | 42 | display.AB. AND ((pixel led oled el) WITH (calculat\$3 determin\$3 estimat\$3) WITH (life lifetime) WITH (brightness intensity luminance magnitude light))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/12/19 09:49 |
| S10<br>9 | 22 | S108 NOT S107   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/12/19 09:49 |
| S11<br>0 | 2  | ("6414661").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/15 10:52 |

## EAST Search History

|          |       |  |   |    |     |                  |
|----------|-------|--|---|----|-----|------------------|
| S11<br>1 | 3406  | (calculat\$3 determin\$3 estimat\$3 acquir\$3 measur\$3) near5<br>(pixel led oled el light\$3 luminance) near5 ((life lifetime<br>life-time) ((hours time) near5 (work\$3 function\$3 operable<br>operat\$3))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 15:33 |
| S11<br>2 | 84878 | ("345").CLAS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/15 10:59 |
| S11<br>3 | 191   | S112 and S111  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 10:59 |
| S11<br>4 | 95    | S112 and S111 and (led oled el)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 15:40 |
| S11<br>5 | 2     | ("20050030267").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/15 14:59 |
| S11<br>6 | 1     | S115 and (calculat\$3 with (lifetime life))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 15:00 |
| S11<br>7 | 746   | (optimiz\$3 maximiz\$3) with (pixel led oled el light\$3 luminance<br>display panel) with (life lifetime life-time)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 15:35 |
| S11<br>8 | 5772  | (calculat\$3 determin\$3 estimat\$3 acquir\$3 measur\$3) with<br>(pixel led oled el light\$3 luminance display panel) with (life<br>lifetime life-time)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 15:35 |
| S11<br>9 | 13    | S112 and S117 and S118 and (led oled el)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 16:09 |
| S12<br>0 | 6     | ("20030043088"   "20040113875"   "6392717"   "6639574"  <br>"6747618"   "6911961").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2007/05/15 16:04 |
| S12<br>1 | 37    | S117 and S118 and ((led oled el) same display)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/15 16:11 |

## EAST Search History

|          |    |  |   |    |    |                  |
|----------|----|--|---|----|----|------------------|
| S12<br>2 | 24 | S121 not S119  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/15 16:12 |
| S12<br>3 | 28 | S117 and S118 and ((led oled el) same display) and temperature | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/15 16:12 |
| S12<br>4 | 18 | S123 not S119  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/15 16:12 |